



**PATENT**

Case Docket No. VAST.003A

Date: July 26, 2004

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : David L. Hagen et al.  
App. No. : 10/763,057  
Filed : January 22, 2004  
For : THERMODYNAMIC CYCLES  
USING THERMAL DILUENT  
Group Art Unit : 3745

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

July 26, 2004

(Date)  
*Rabinder N. Narula*

Rabinder N. Narula, Reg. No. 53,371

**TRANSMITTAL LETTER**

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**ATTENTION: MAIL STOP MISSING PARTS**

Dear Sir:

In response to the Notice to File Missing Parts of Application Under 37 CFR 1.53(f), which was mailed by the Office on April 28, 2004, enclosed are:

- (X) Preliminary Amendment in 3 pages.
- (XI) An executed Declaration by Inventors.
- (X) A Notice to File Missing Parts.
- (X) An extension of time to respond for 1 month is hereby requested.

Time Extension Fee:

- (X) one month (\$110 large entity)
- (X) Return prepaid postcard.

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(X) Fees as calculated below:

FILING FEE		\$ 770
37 CFR 1.16(e)		\$ 130
FEE FOR EXTENSION OF TIME (LARGE ENTITY)	1 month	\$ 110
ADDITIONAL CLAIM FEES		\$ 3970
TOTAL FEES SUBMITTED HEREWITH		\$ 4980

(X) A check in the amount of \$4980 to cover the above fees is enclosed.

(X) The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment, to Account No. 11-1410.

Rabinder N. Narula  
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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/763,057	01/22/2004	David L. Hagen	VAST.003A

CONFIRMATION NO. 3720

## FORMALITIES LETTER



\*OC000000012465195\*

20995

KNOBBE MARTENS OLSON & BEAR LLP  
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FOURTEENTH FLOOR  
IRVINE, CA 92614

07/28/2004 HDEMESS1 00000060 10763057

01 FC:1001	770.00 OP
02 FC:1201	172.00 OP
03 FC:1202	3798.00 OP
04 FC:1051	130.00 OP

Date Mailed: 04/28/2004

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 770 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of \$3970 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$4870 for a Large Entity

- \$770 Statutory basic filing fee.
- \$130 Late oath or declaration Surcharge.

- Total additional claim fee(s) for this application is **\$3970**
  - **\$172** for **2** independent claims over 3.
  - **\$3798** for **211** total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

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*A copy of this notice **MUST** be returned with the reply.*

*MDuong*

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Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE